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A.O.I

A village is hit by Malaria. The government decides to give each member in a household a mosquito net to avoid mosquitoes.

Each package contains an equal number of nets of six.

There are 12 households in the village, whose members are:

2, 3, 4, 5, 3, 7, 9, 8, 11, 12, 8, 10

Task

a Determine the number of packages of mosquito nets the government will take to the village.

b Are there any remaining nets? How can the government utilise them also?

Soln (a)

$$\begin{aligned} \text{Total number of members} \\ &= 2+3+4+5+3+7+9+8+11+12+8+10 \\ &= 82 \end{aligned}$$

$$\begin{aligned} \text{Number of nets per package} &= 6 \\ \text{Base 6} \end{aligned}$$

$$\begin{aligned} \text{Number of packages} &= \frac{82}{6} \\ &= 13 \text{ r } 4 \end{aligned}$$

The government will need 14 full packages and the 14th package will remain with 4 nets.

Soln (b)

- 1 The government will give the remaining nets to the chairman of the village to keep them for the new settlers in case they come to settle on the village.
- 2 The government could give them to school children in the boarding section without mosquito nets.
- 3 By giving them to the peacekeepers of the village in form of appreciating them.
- 4 By giving them to an orphanage to be given to orphans without mosquito nets.
- 5 By giving them to a hospital to be given to malaria patients within the hospital.
- 6 By giving them to elderly people in the community with disabilities.
- 7 By giving them to families with pregnant mothers for their future children.